

$$f(x) = 5x - 3$$

A: (-3.00, 5.00)

$$m \text{ of } \perp = -\frac{1}{5}$$

$$(-3, 5)$$

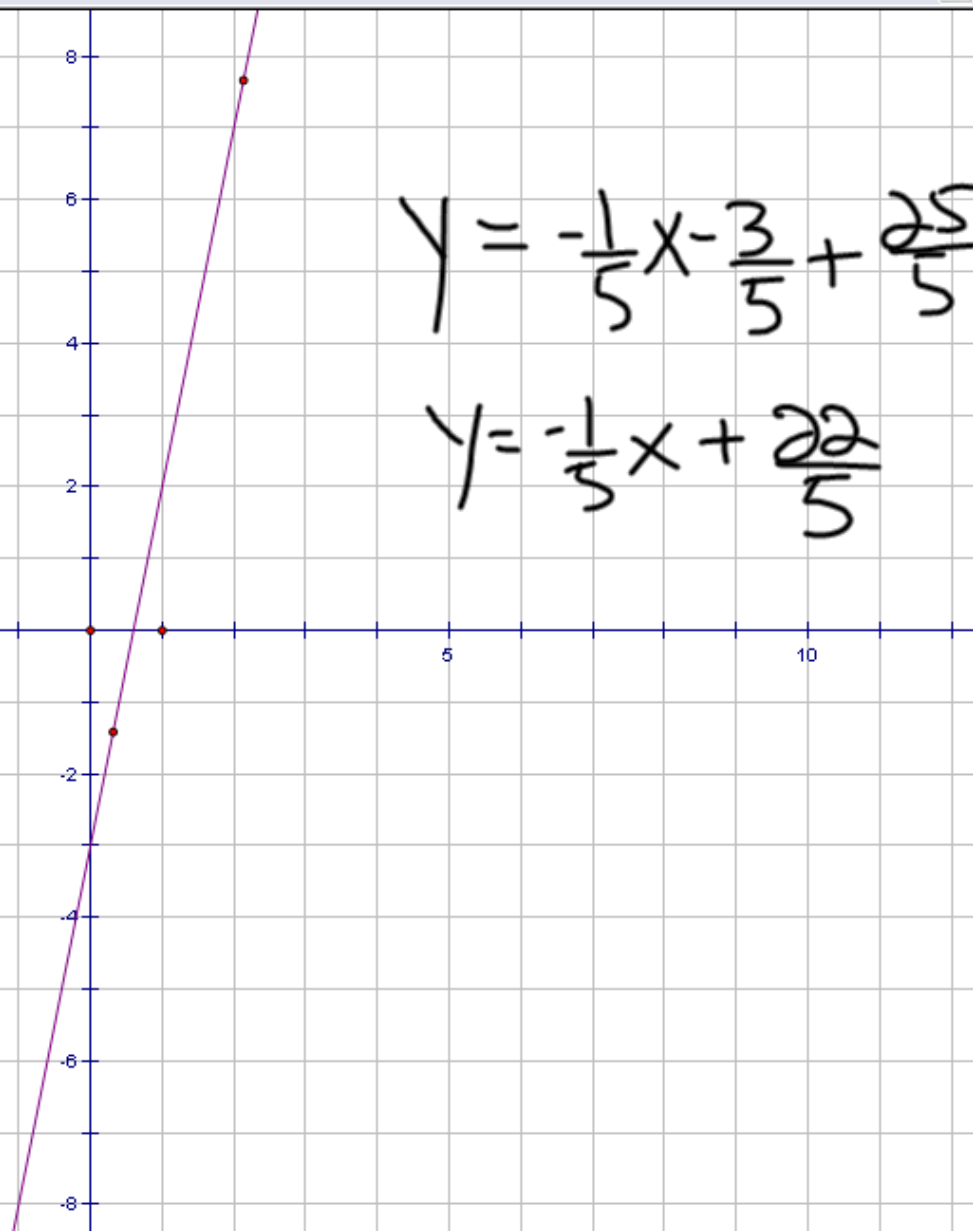
$$y - y_1 = m(x - x_1)$$

$$y - 5 = -\frac{1}{5}(x + 3)$$

$$y - 5 = -\frac{1}{5}x - \frac{3}{5}$$

$$y = -\frac{1}{5}x - \frac{3}{5} + \frac{25}{5}$$

$$y = -\frac{1}{5}x + \frac{22}{5}$$



$$f(x) = 5x - 3$$

A: (-3.00, 5.00)

$$g(x) = \left(\frac{-1}{5}\right)x + \frac{22}{5}$$

$$5x - 3 = -\frac{1}{5}x + \frac{22}{5}$$

$$\frac{26}{5}x = \frac{37}{5}$$

$$x = \frac{37}{26}$$

$$y = 5x - 3$$

$$y = 5 \cdot \frac{37}{26} - 3$$

$$y = \frac{185}{26} - \frac{78}{26} = \frac{107}{26}$$

$$f(x) = 5 - x - 3$$

$$A: (-3.00, 5.00)$$

$$g(x) = \left(\frac{-1}{5}\right) \cdot x + \frac{22}{5}$$

$$C: (1.42, 4.12)$$

$$\left(\frac{37}{26}, \frac{107}{26}\right)$$

$$d = \sqrt{\left(\frac{37}{26} + 3\right)^2 + \left(\frac{107}{26} - 5\right)^2}$$

$$d = \sqrt{\left(\frac{115}{26}\right)^2 + \left(\frac{-23}{26}\right)^2}$$

$$d \approx \sqrt{19.56 + .072}$$

$$d \approx \sqrt{19.632}$$

$$d \approx 4.43$$

$$f(x) = 5 \cdot x - 3$$

$$g(x) = \left(\frac{-1}{5}\right) \cdot x + \frac{22}{5}$$

$$AC = 4.51 \text{ cm}$$

A: (-3.00, 5.00)

C: (1.42, 4.12)

D: (3.00, -2.00)

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